

QUESTION 6 FIELDS

Mercury is a relatively small planet with a radius of $2,44 \times 10^6 \text{ m}$. The gravitational field strength at different distances from the centre of Mercury is recorded in the table.

r ($\times 10^6 \text{ m}$)	$\frac{1}{r^2}$ ($\times 10^{-13} \text{ m}^{-2}$)	gravitational field strength ($\text{N}\cdot\text{kg}^{-1}$)
2,5	1,6	3,5
2,8	1,3	2,8
3,2	1,0	2,1
3,5	missing value	1,8
4,5	0,5	1,1
5,8	0,3	0,7

- 6.1 Calculate the value that is missing from the table. (1)
- 6.2 Plot a graph of gravitational field strength (on y -axis) vs $\frac{1}{r^2}$ (on x -axis) on the graph paper provided **on the Answer Sheet**. (6)
- 6.3 Use your graph to determine the magnitude of the gravitational field strength on the surface of Mercury. Show all necessary working. (3)
- 6.4 Calculate the gradient of your graph. Show the values that you used on your graph. No unit is required in your answer. (4)
- 6.5 Use an appropriate equation and your gradient calculated in Question 6.4 to determine the mass of Mercury. (4)
- 6.6 A box with a mass of 5 kg is raised through a height of 2 m on the surface of Mercury. How much gravitational potential energy will the box gain? (3)
- [21]**

Physical Science P1 Scope Grade1

Lei Huang



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